

Recombinant Human HSBP1

Cat. No. HSBP1-28197TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HSBP1 is a single, non-glycosylated polypeptide chain .
Species	Human
Source	E.coli
Description	The heat-shock response is elicited by exposure of cells to thermal and chemical stress and through the activation of HSFs (heat shock factors) results in the elevated expression of heat-shock induced genes. Heat shock factor binding protein 1 (HSBP1), is a 76-amino-acid protein that binds to heat shock factor 1 (HSF1), which is a transcription factor involved in the HS response. During HS response, HSF1 undergoes conformational transition from an inert non-DNA-binding monomer to active functional trimers. HSBP1 is nuclear-localized and interacts with the active trimeric state of HSF1 to negatively regulate HSF1 DNA-binding activity. Overexpression of HSBP1 in mammalian cells represses the transactivation activity of HSF1. When overexpressed in C.elegans HSBP1 has severe effects on survival of the animals after thermal and chemical stress consistent with a role of HSBP1 as a negative regulator of heat shock response.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 50mM Sodium chloride, 20mM Tris

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	HCl, 1mM EDTA, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MAETDPKTVQ DLTSVVQTLL QQMQDKFQTM SDQIIGRIDD MSSRIDDLEK NIADLMTQAG VEELESENKI PATQKS
Sequence Similarities	Belongs to the HSBP1 family.
Full Length	Full L.

GENE INFORMATION

Gene Name	HSBP1 heat shock factor binding protein 1 [Homo sapiens]
Official Symbol	HSBP1
Synonyms	HSBP1; heat shock factor binding protein 1; heat shock factor-binding protein 1;
Gene ID	3281
mRNA Refseq	NM_001537
Protein Refseq	NP_001528
MIM	604553
Uniprot ID	O75506
Chromosome	16q23.3

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Location**Function**

transcription corepressor activity;

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